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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,743 11/26/2003		Hans-Dieter Gaul	DT-6688	8970
30377	7590 10/18/2005	EXAMINER		INER
DAVID TOREN, ESQ. ABELMAN FRAYNE & SCHWAB			GAY, JENNIFE	ER HAWKINS
666 THIRD A		ART UNIT	PAPER NUMBER	
NEW YORK,	NY 10017-5621	3672		

DATE MAILED: 10/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
Office Action Summary		10/723,7		GAUL, HANS-DIETER				
		Examine	7	Art Unit				
		Jennifer I	<u> </u>	3672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) file	ed on .						
·		 2b)⊠ This action is r	non-final.					
3)	, 							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖂	Claim(s) 1-11 is/are pending in the a	application.	•					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restrict	ction and/or election	equirement.					
Applicati	on Papers							
9)🛛	The specification is objected to by th	e Examiner.						
10)⊠ The drawing(s) filed on <u>26 November 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119	•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority							
	2. Certified copies of the priority		• •					
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t/e)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice	te of Praftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 of r No(s)/Mail Date <u>5/3/04</u> .		Paper No(s)/Mail Di Notice of Informal F Other:	ate	O-152)			

Office Action Summary

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 10. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 3. The abstract of the disclosure is objected to because the abstract has been constructed as a single run-on sentence. Correction is required. See MPEP § 608.01(b).
- 4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

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The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The disclosure is objected to because of the following informalities: in the last line of page 6 "outer thread 12" should be changed to --outer thread 10--.

Appropriate correction is required.

Claim Objections

- 6. Claims 2, 9, and 11 are objected to because of the following informalities:
 - Claim 2 recites "inner grooves of the splined profile (3)" but the splined profile is not depicted or described as having inner grooves. It is suggested that "inner" be deleted.
 - Claim 9 is objected to because there is insufficient antecedent basis for "the tool-side axial stop surface".
 - Claim 11, line 2 "and having" should be changed to --wherein the tool holder comprises-- as the current language does not associate the remainder of the recited features with the tool holder.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 1-6, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asak (US 4,860,838).

Regarding claim 1: Asak discloses a tool holder for a drill bit. The holder includes the following features:

- A bit-side stop surface 50.
- An end-side splined profile 34 extending in a bit direction.

Asak discloses all of the limitations of the above claims except for the splined profile including an outer thread. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the splined profile of Asak to include outer threads as the examiner takes Official Notice that outer threads or protrusions are well known in the art to increase the frictional engagement between to objects thus increasing the strength of the connection.

Regarding claim 2: The tool holder includes at grooves on the splined profile that have an outer radial dimensions that is smaller than the axial extent of the grooves (Figure 9).

Regarding claims 3-5: The splined profile includes four equidistantly circumferentially spaced axial grooves of the same width.

Regarding claim 6: Asak discloses all of the limitations of the above claims except for the splined profile including six axial grooves. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have increased the number of grooves of the splined profile of Asak to six in order to have increased the contact between the splined profile and the corresponding recesses thus increasing the strength of the connection.

Regarding claims 8, 9: The tool holder includes an axial conical surface 48 that extends between the bit-side stop and a tool-side stop 56.

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9. Claims 1-7, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Despres (US 6,341,925).

Regarding claim 1: Despres discloses a tool holder for a drill bit. The holder includes the following features:

- A bit-side stop surface 64.
- An end-side splined profile 50 extending in a bit direction.

Despres discloses all of the limitations of the above claims except for the splined profile including an outer thread. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the splined profile of Despres to include outer threads as the examiner takes Official Notice that outer threads or protrusions are well known in the art to increase the frictional engagement between to objects thus increasing the strength of the connection.

Regarding claim 2: The tool holder includes at grooves on the splined profile that have an outer radial dimensions that is smaller than the axial extent of the grooves (Figure 1).

Regarding claims 3-5: The splined profile includes four equidistantly circumferentially spaced axial grooves of the same width.

Regarding claim 6. Despres discloses all of the limitations of the above claims except for the splined profile including six axial grooves. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have increased the number of grooves of the splined profile of Despres to six in order to have increased the contact between the splined profile and the corresponding recesses thus increasing the strength of the connection.

Regarding claim 7: The tool holder includes a tool-side stop surface 63 axially spaced from the bit-side stop and a sleeve 21 having inner threads and overlapping the tool-side stop.

Regarding claim 10: Despres discloses all of the limitations of the above claims except for a rubber ring between the sleeve and the tool-side stop surface. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have included a rubber ring between the tool-side stop and the

sleeve of Despres in order to have sealed the connection between the two elements thus preventing debris from damaging the operation of the tool.

Regarding claim 11: Despres discloses a tool assembly for core drilling. The assembly includes the following features:

- An annular core bit 22.
- A tool holder that includes the following features:
 - A bit-side stop surface 64.
 - · An end-side splined profile 50 extending in a bit direction.
- An inner splined profile 42 on the bit for engagement with the splined profile.

Despres discloses all of the limitations of the above claims except for the splined profile including an outer thread. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the splined profile of Despres to include outer threads as the examiner takes Official Notice that outer threads or protrusions are well known in the art to increase the frictional engagement between to objects thus increasing the strength of the connection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer H. Gay whose telephone number is (571) 272-7029. The examiner can normally be reached on Monday-Thursday, 6:30-4:00 and Friday, 6:30-1:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer H Gay Primary Examiner Art Unit 3672

October 11, 2005